

ABSTRACT

A device for separating CD (cluster differentiation)-positive cells of human hematopoietic undifferentiated cells and a method for separating or detecting the same.

In the above device and method, CD-positive cells are separated by using CD molecule-recognizing recombinant antibodies obtained by isolating anti-CD4 or anti-CD34 antibody gene and expressing the same.

The device and method are efficaciously employed in the field of medicine for collecting hematopoietic undifferentiated cells, eliminating lymphocytes from cells to be used in bone marrow transplantation, detecting leukemic cells, etc. It is also possible to prepare medicinal compositions for autoimmune diseases by using the above antibodies.